

What is claimed is:

*Sub a* → 1. An optical cable *[to be installed on land]* comprising:  
 a first optical fiber having a positive chromatic dispersion at a signal  
 light wavelength; and  
 5 a second optical fiber having a negative chromatic dispersion at the  
 same wavelength;  
 wherein said first and second optical fibers have been connected by  
 fusion splicing *in one* at a joint, being accommodated in said optical cable.

2. An optical cable according to Claim 1, wherein said signal light  
 wavelength is 1.55  $\mu\text{m}$ . *See fig 4 of drawing*

3. An optical cable according to Claim 2, having a length which is not  
 less than 1 km but not more than 10 km.

4. An optical cable according to Claim 2, wherein the ratio of the  
 effective area of said first optical fiber to that of said second optical fiber is not  
 more than 0.5 or not less than 2.0.

5. An optical cable according to Claim 2, wherein the distance between  
 said joint and an adjacent end of said optical cable is not less than 100 m.

6. An optical cable according to Claim 2, wherein the absolute chromatic  
 dispersion value of each of said first and second optical fibers is not less than  
 20 10 ps/nm/km at said signal light wavelength.

7. An optical cable according to Claim 2, wherein said joint has been  
 subjected to heat treatment and re-coated subsequent to said fusion-splicing  
 operation.

*JP 03-130705*

8. An optical cable according to Claim 2, wherein the splicing loss at said joint is not more than 0.3 dB.

9. An optical cable according to Claim 2, wherein each of said first and second optical fibers is provided with information for identifying each type of optical fiber.

10. A method of installing an optical cable, comprising the steps of:  
preparing a first optical cable having a first optical fiber having a positive chromatic dispersion at a signal light wavelength and a second optical fiber having a negative chromatic dispersion at the same wavelength, said first and second optical fibers having been connected by fusion splicing to form a joint, being accommodated in said first optical cable;

preparing a second optical cable accommodating the same types of optical fibers as those in said first optical cable;

installing said first and second optical cables on land; and

jointing said first and second optical cables in such a way that the optical fibers of the same type accommodated in said first and second optical cables are connected together by fusion splicing.

11. A method of installing an optical cable, comprising the steps of:

preparing a first and second optical cables each having a first optical fiber having a positive chromatic dispersion at a signal light wavelength and a second optical fiber having a negative chromatic dispersion at the same wavelength, said first and second optical fibers having been connected by fusion splicing to form a joint, being accommodated in said respective optical

cables;

installing said first and second optical cables on land; and

jointing said first and second optical cables in such a way that the optical fibers of the same type accommodated in said first and second optical  
5 cables are connected together by fusion splicing.

12. An optical transmission line, comprising:

a first optical cable having a first optical fiber having a positive chromatic dispersion at a signal light wavelength and a second optical fiber having a negative chromatic dispersion at the same wavelength, said first and second optical fibers having been connected by fusion splicing to form a joint,  
10 being accommodated in said first optical cable; and

a second optical cable accommodating the same types of optical fibers as those in said first optical cable;

said first and second optical cables being installed on land and jointed  
15 together in such a way that the optical fibers of the same type accommodated in said first and second optical cables are connected together by fusion splicing.

13. An optical transmission line, comprising:

a first and a second optical cables, each having a first optical fiber having a positive chromatic dispersion at a signal light wavelength and a  
20 second optical fiber having a negative chromatic dispersion at the same wavelength, said first and second optical fibers having been connected by fusion splicing to form a joint, accommodated in said first and second optical cables,

les being  
l fibers of  
re connect